Appendix

Documents

[1] Messaging System for Delivering Data in the Form of Portable Message Formats in Between Message Clients

International Patent Application No. PCT/CH 01/00002

[2] Developing Publish/Subscribe Applications with iBus

Revision 1.1, Mon May 17 13:58:23 1999 UTC (4 years, 10 months ago) by silvano

[3] iBus - The Next Generation Software Bus

Revision 1.1, Mon May 17 13:58:23 1999 UTC (4 years, 10 months ago) by silvano

Java Files

These are unaltered extracts from Softwired's CVS.

[4] DISPATCH.java

Revision 1.17, Wed Apr 28 13:32:57 1999 UTC (4 years, 10 months ago) by bliklly Branch: MAIN

```
* $Id: DISPATCH.java,v 1.17 1999/04/28 13:32:57 bilkly Exp $

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**/
```

[CODE]

```
** $Log: DISPATCH. java,v $

* Revision 1.17 1999/04/28 13:32:57 bllklly

* Added to-do note.

* Revision 1.16 1999/04/09 16:37:35 silvano

* implemented Channel properties (PR#161429).

* Revision 1.15 1998/12/15 12:48:39 silvano

* moved FIFOQueue from internal to util package.

* Revision 1.14 1998/12/15 09:17:36 tom

* log_ si public final static now. Jitterbug: 161350

* Revision 1.13 1998/11/18 09:30:03 silvano

* fixed dnThrottle deadlock bug
```

Exhibit A

```
Revision 1.12 1998/11/17 10:26:48 silvano improved throttling to better cope with slow consumers revision 1.11 1998/11/17 10:09:07 tom small fixes for moved Exceptions.

Revision 1.10 1998/11/16 14:24:51 silvano fixed a javadoc comment revision 1.9 1998/11/13 15:54:05 vera revision 1.8 1998/11/12 16:14:30 vera revision 1.8 1998/11/12 16:14:30 vera revision 1.7 1998/10/27 11:56:20 silvano revision 1.7 1998/10/27 11:56:20 silvano revision 1.7 1998/10/27 11:56:20 silvano revision 1.6 1998/10/26 14:07:54 silvano revision 1.6 1998/10/26 14:07:54 silvano revision 1.5 1998/10/14 14:38:35 tom revision 1.5 1998/10/14 14:38:35 tom revision 1.5 1998/10/14 14:38:35 tom revision 1.4 1998/09/16 07:44:24 silvano revision 1.3 1998/09/15 12:04:14 silvano revision 1.3 1998/09/15 12:04:14 silvano revision 1.2 1998/09/15 12:04:14 silvano revision 1.1 1998/09/11 13:27:30 silvano revision 1.1 1998/09/11 13:27:30 silvano revision 1.1 1998/08/31 13:39:10 tom revision 1.1 1998/08/31 13:40:10 tom revision 1.2 1998/08/31 13:40:10 tom revision 1.2 1998/08/31
```

[5] FRAG.java

```
Revision 1.13, Tue Dec 15 12:27:57 1998 UTC (5 years, 3 months ago) by silvano Branch: MAIN
        $Id: FRAG.java.v 1.13 1998/12/15 12:27:57 silvano Exp $ Copyright 1998 by Softwired AG, Technoparkstrasse 1, CH-8005 Zuerich, Switzerland
        All rights reserved.
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    */
 [CODE]
* $Log: FRAG.java,v $

* Revision 1.13 1998/12/15 12:27:57 silvano

* Implemented MessageEvent.outDataStream and inDataStream. Proto objects beneath FRAG can use those accessors to avoid considering the extra information added by ObjectOutputStream. (PR#161308)

* 161350
      Revision 1.11 1998/12/14 07:42:55 silvano made sure that dnPush calls by several threads to the same channel do not garble up the fragments. Implemented channelLocks... (PR#161359)
      Revision 1.10 1998/11/19 13:49:26 tom 
Javadoc Review.
      Revision 1.9. 1998/11/17 10:09:10 Small fixes for moved Exceptions.
      Revision 1.8 1998/11/16 15:52:58 vera
     Cleanup.
     Revision 1.7 1998/10/26 08:01:55 silvano revised message header writing and size computation
     Revision 1.6 1998/10/15 12:15:12 tom Changed F* tags iDoc compliant.
    Revision 1.5 1998/10/14 14:38:38 tom Javadoc comments reformatted.
    Revision 1.4 1998/09/22 15:38:32 si performance optimization of Log calls
    Revision 1.3 1998/09/17 08:14:07 silvano senderQueues_ to contain Hashtables of <destinationURL/SenderQueue> entries, to avoid having to call toString() on senderURL to create a key.
*Revision 1.2 1998/09/16 07:44:26 silvano
*Implemented optimized Log operations that take an argument list
    Revision 1.1 1998/09/11 13:27:31 silvano integrated Silvano's 0.5 work
  Revision 1.1 1998/08/31 13:39:10 tom API and iBus core integration; Header; Footer
```

[6] FIFO, java

Revision 1.14, Fri Apr 9 16:37:36 1999 UTC (4 years, 11 months ago) by silvano Branch: MAIN

140

```
* $Id: FIFO.java,v 1.14 1999/04/09 16:37:36 silvano Exp $

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*/
```

[CODE]

```
* SLog: FIFO. java.v $
    Revision 1.14 1999/04/09 16:37:36 silvano
    implemented Channel properties (PR#161429).

* Revision 1.13 1998/12/15 09:17:37 tom
    log_ si public final static now. Jitterbug: 161350

* Revision 1.12 1998/11/19 13:49:24 tom

Javadoc Review.

* Revision 1.11 1998/11/18 11:49:00 tom
    Inconsistencies in param tags corrected.

* Revision 1.9 1998/11/17 10:09:08 tom
    Small fixes for moved Exceptions.

* Revision 1.8 1998/11/16 16:40:24 silvano
    undid getOutofOrderHi() API change (protected -> public)

* Revision 1.7 1998/11/16 15:52:56 vera
    Cleanup.

* Revision 1.6 1998/10/14 14:38:36 tom
    Javadoc comments reformatted.

* Revision 1.5 1998/09/18 15:21:09 silvano
    ifixed a comment

* Revision 1.4 1998/09/16 07:44:25 silvano
    Implemented optimized Log operations that take an argument list

* Revision 1.3 1998/09/15 12:04:15 silvano
    added normalizeURL call

* Revision 1.2 1998/09/14 08:28:20 silvano
    porting protocol objects to new API

* Revision 1.1 1998/09/11 13:27:30 silvano
    integrated Silvano's 0.5 work

* Revision 1.1 1998/08/31 13:39:10 tom
    API and 18us core integration; Header; Footer
```

[7] NAK.java

Revision 1.42, Thu May 6 14:27:06 1999 UTC (4 years, 10 months ago) by silvano Branch: MAIN

É

```
$Id: NAK.java,v 1.42 1999/05/06 14:27:06 silvano Exp $
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* All rights reserved.
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  4/
[CODE]
     $Log: NAK.java.v $
Revision 1.42 1999/05/06 14:27:06 silvano
Fixed javadoc @see tags for javadoc 1.2.
    Revision 1.41 1999/04/09 16:37:40 silvano implemented Channel properties (PR#161429).
    Revision 1.40 1999/03/10 17:36:26 tom
Initial move from PropertyHelper to new Config system.
    Revision 1.39 1999/03/08 13:34:10 silvano moved InetHelper class from internal to util.
    Revision 1.38 1999/01/08 13:19:44 silvano added call to processEpochEnd
   Revision 1.37 1999/01/07 16:53:11 silvano minor mods for handling new NREACH heartbeats
    Revision 1.36 1999/01/06 16:24:16 silvano reimplemented forcing of epoch termination.

Now NAK.dnUnregisterTalker sends a HeartbeatEvent to the listeners to force them to ack the epoch.
    Revision 1.35 1999/01/04 18:00:02 silvano changed dnunregisterTalker, such that senderInfo is removed in case the stack has a local listener.
    Revision 1.34 1998/12/22 13:14:08 silvano removed HTML link to NAK.gif. GIF was moved to doc/design/diagrams
    Revision 1.33 1998/12/15 09:17:42 tom log_ si public final static now. Jitterbug: 161350
    Revision 1.32 1998/11/19 13:49:32 tom
    Javadoc Review.
   Revision 1.31 1998/11/18 11:53:14 silvano revised Log.panic() calls
   Revision 1.30 1998/11/18 10:11:00 silvano edited expectedInitialMsgs javadoc.
   Revision 1.29 1998/11/18 09:47:52 vera
   Revision 1.28 1998/11/18 09:08:01 vera
   Revision 1.27 1998/11/17 13:41:11 vera
   Revision 1.26 1998/11/17 10:26:51 silvano improved throttling to better cope with slow consumers
* Revision 1.25 1998/11/17 10:09:15 tom
```

```
* Small fixes for moved Exceptions.
     Revision 1.24 1998/11/16 15:53:01 vera
     Cleanup.
     Revision 1.23 1998/11/13 15:54:09 vera
     Cleanup.
     Revision 1.22 1998/11/12 15:50:25 silvano extended dnunregisterTalker to handle cases where outgoing_ is not empty but all listeners have left. Necessary for PULL.
     Revision 1.21 1998/11/12 14:45:14 vera
     Cleanup.
    Revision 1.20 1998/11/12 08:41:32 vera Cleanup.
    Revision 1.19 1998/11/11 07:48:12 silvano fixed two bugs
    Revision 1.18 1998/11/10 13:57:50 silvano improving flow and congestion control
    Revision 1.17 1998/11/05 12:21:01 silvano fixed bug in the flow control code
    Revision 1.16 1998/11/05 09:55:39 silvano improved flow contro? reduced epochsz to 200
    Revision 1.15 1998/11/03 16:28:11 silvano improved flow control.
    added myrank_ property.
   Revision 1.14 1998/10/30 16:59:17 silvano added fragment expiration
   Revision 1.13 1998/10/26 08:01:58 silvano revised message header writing and size computation
   Revision 1.12 1998/10/23 12:49:22 silvano
   added lost.setRetransmit(true)
 * Revision 1.11 1998/10/21 15:12:20 silvano
* added a Thread.yield(); after System.gc() to help GC
   Revision 1.10 1998/10/14 14:38:43 tom
   Javadoc comments reformatted.
   Revision 1.9 1998/10/13 11:23:41 si modifications for proper finalization
                                                            silvano
   Revision 1.8 1998/10/12 07:44:28 tom
Finalization issues mostly resovled. dnTerminate now always calls
super.dnTerminate. Finalizer added to Protocolobject.
No Protocolobject should have its one finalizer see docu forProtocolobject.finalize
* Revision 1.7 1998/10/02 14:32:06 silvano
* fixed unsubscription bug in send()
  Revision 1.6 1998/09/23 07:32:30 silvano removed some log_.debug statements
  Revision 1.5 1998/09/22 15:38:34 silvano performance optimization of Log calls
  Revision 1.4 1998/09/17 08:35:34 silvano
Got rid of ChannelURLFactory import statement
  Revision 1.3 1998/09/16 07:44:30 silvano Implemented optimized Log operations that take an argument list
  Revision 1.2 1998/09/15 13:16:23 silvano implemented URL normalization
  Revision 1.1 1998/09/11 13:27:33 silvano integrated Silvano's 0.5 work
* Revision 1.1 1998/08/31 13:39:10 tom
* API and iBus core integration; Header; Footer
```

C)

[8] REACH.java

Revision 1.45, Thu May 6 14:27:10 1999 UTC (4 years, 10 months ago) by silvano Branch: MAIN

```
* $Id: REACH.java.v 1.45 1999/05/06 14:27:10 silvano Exp $

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*/

[CODE]

/*

* $Log: REACH.java.v $
    Revision 1.45 1999/05/06 14:27:10 silvano
    Fixed javadoc @see tags for javadoc 1.2.

* Revision 1.44 1999/04/23 08:22:41 silvano
    Fix for bug PR#161448.

* Revision 1.43 1999/04/09 16:37:44 silvano
    implemented Channel properties (PR#161429).

* Revision 1.42 1999/03/30 13:36:33 silvano
    implemented getStackCache().
```

Revision 1.41 1999/03/10 17:36:29 tom Initial move from PropertyHelper to new Config system.

Revision 1.40 1999/03/08 13:34:14 silvano moved InetHelper class from internal to util.

Revision 1.39 1999/02/02 10:37:09 silvano fixed bug that lead to message loss

Revision 1.38 1999/01/21 13:42:04 silvano fixed minor bug

Revision 1.37 1999/01/21 10:30:42 silvano renaming NREACH to REACH

Revision 1.36 1999/01/21 09:55:49 silvano renaming REACH to REACH

Revision 1.24 1999/01/20 14:20:01 silvano fixed javadoc

Revision 1.23 1999/01/20 14:10:42 silvano fixed javadoc

[9] IPMCAST.java

Revision 1.50, Wed May 5 13:27:47 1999 UTC (4 years, 10 months ago) by bliklly Branch: MAIN

```
* $Id: IPMCAST.java,v 1.50 1999/05/05 13:27:47 bllklly Exp $
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   ¢ /
[CODE]
/*

* $Log: IPMCAST.java,v $

* Revision 1.50 1399/05/05 13:27:47 bllklly

* Fix infinite recursion when publishing log messages by setting publishable

* False for IPMCAST logs.

* Black for IPMCAST logs.
     Revision 1.48 1999/04/21 06:17:00 silvano fixed minor bug that might lead to a warning on socket close.
     Revision 1.47 1999/04/09 16:37:37 silvand implemented Channel properties (PR#161429).
  * Revision 1.46 1999/03/11 15:43:09 tom
* Get iBus version using Config.getVersion() method.
     Revision 1.45 1999/03/10 17:36:25 tom
Initial move from PropertyHelper to new Config system.
     Revision 1.44 1999/03/08 13:34:09 silvano moved InetHelper class from internal to util.
     Revision 1.43 1998/12/17 14:42:24 silvano
     extended contents of a Log.warn message
    Revision 1.42 1998/12/15 14:52:41 silvano donormalize uses interface if interface != null and address == null. (PR#161351).
    Revision 1.41 1998/12/15 12:48:40 silvano moved FIFOQueue from internal to util package.
    Revision 1.40 1998/12/15 12:27:58 silvano Implemented MessageEvent.outDataStream and inDataStream. Proto objects beneath FRAG can use those accessors to avoid considering the extra information added by ObjectOutputStream. (PR#161308)
    Revision 1.39 1998/12/15 11:50:06 build
Linux JDK bug: MulticastSocket.setInterface throws a SocketException.
Made sure IPMCAST_test drivers doesn't panic on Linux.
  * Revision 1.38 1998/12/15 10:35:05 silvano
* reverted the panics that were changed to warnings.
 * Revision 1.34 1998/12/15 09:17:39 tom
* log_ si public final static now. Jitterbug: 161350
    Revision 1.33 1998/11/19 13:49:27 tom
Javadoc Review.
   Revision 1.32 1998/11/18 09:59:49 vera Cleanup.
 * Revision 1.31 1998/11/17 10:26:49 silvano
* improved throttling to better cope with slow consumers
```

```
Revision 1.30 1998/11/17 10:09:11 tom Small fixes for moved Exceptions.
    Revision 1.29 1998/11/16 15:52:59 vera
    Cleanup.
    Revision 1.28 1998/11/13 15:54:07 vera
    Cleanup.
    Revision 1.27 1998/11/12 14:45:12 vera
    Cleanup.
    Revision 1.26 1998/11/12 08:41:30 vera
    Cleanup.
    Revision 1.25 1998/11/11 16:35:47 silvano retransmitted message events are not queued any more on overload
   Revision 1.24 1998/11/10 13:57:48 s1lvano improving flow and congestion control
   Revision 1.23 1998/11/06 16:56:57 silvano fixed race condition that occurred during/after dnTerminate
   Revision 1.22 1998/11/06 09:36:57 silvano fixed dnTerminate bugs
   Revision 1.21 1998/11/03 09:02:45 silvano
   implemented message versioning
   Revision 1.20 1998/10/26 14:07:55 silvano implemented event queue optimization
   Revision 1.19 1998/10/26 08:01:56 silvano revised message header writing and size computation
   Revision 1.18 1998/10/21 10:49:11 silvano added call to setSoTimeout(0) for DatagramSockets
   in the hope the InterruptedException on Linux disappears.
   Revision 1.17 1998/10/15 12:27:59 tom
Changed F* @param tags iDoc compliant.
   Revision 1.16 1998/10/15 12:15:14 tom Changed F* tags iDoc compliant.
   Revision 1.15 1998/10/14 14:38:39 tom
   Javadoc comments reformatted.
  Revision 1.14 1998/10/13 11:23:44 silvano modifications for proper finalization
  Revision 1.13 1998/10/12 07:44:26 tom
Finalization issues mostly resovled. dnTerminate now always calls
super.dnTerminate. Finalizer added to Protocolobject.
No Protocolobject should have its one finalizer see docu Protocolobject.finalize
  Revision 1.12 1998/10/07 07:32:24 silvano undone ALL_UNICAST related modifications
  Revision 1.11 1998/10/07 07:26:51 silvano removed ALL_UNICAST. Modified interface setting code
  Revision 1.10 1998/10/06 10:26:40 silvano Extended ChannelURL to provide information on whether it is a channel member or not
  Revision 1.9 1998/10/05 16:28:39 silvano implemented interface setting
  Revision 1.8 1998/10/02 14:32:28 silvano removed finalizer
  Revision 1.7 1998/09/29 13:39:39 silvano fixed javadoc tags
* Revision 1.6 1998/09/22 15:38:33 silvano
* performance optimization of Log calls
* Revision 1.5 1998/09/18 15:21:50 si?vano
* implemented thread disposal
  Revision 1.4 1998/09/16 09:00:08 silvano
```

* Removed ChannelurLFactory. Implemented util.ChannelurLHelper

* Revision 1.3 1998/09/16 07:44:27 silvano

* Implemented optimized Log operations that take an argument list

* Revision 1.2 1998/09/15 13:16:21 silvano

* implemented url normalization

* Revision 1.1 1998/09/11 13:27:31 silvano

* integrated silvano's 0.5 work

* Revision 1.1 1998/08/31 13:39:10 tom

* API and iBus core integration; Header; Footer

*/

[10] Channel.java

Revision 1.65, Mon May 10 12:41:46 1999 UTC (4 years, 10 months ago) by silvano

```
* $Id: Channel.java,v 1.65 1999/05/10 12:41:46 silvano Exp $
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 [CODE]
     $Log: Channel.java.v $
Revision 1.65 1999/05/10 12:41:46 silvano
Added static final long serialversionUID.
   Revision 1.64 1999/04/20 15:01:28 bllklly
Fix spelling, add To Do note re finalize() order.
     Revision 1.63 1999/04/09 16:37:32 silvano implemented Channel properties (PR#161429).
     Revision 1.62 1999/03/15 15:10:02 silvano fixed bug with multiple Subscribers/Repliers using same Channel object.
     Revision 1.61 1999/03/15 14:03:15 silvano minor code cleanup.
     Revision 1.60 1999/03/12 13:05:54 silvano implemented SignalEvent and SignalEventListener.
    Revision 1.59 1999/03/10 17:36:13 tom
Initial move from PropertyHelper to new Config system.
    Revision 1.58 1999/03/09 13:43:04 silvano implemented topic reuse across stacks (PR#161403).
    Revision 1.57 1999/01/21 10:26:28 tom Fixed register(Subscriber(Replyer) to allow messages to be received before dnsubscribe(...) returns. Used by PERS.
    Revision 1.56 1999/01/20 16:17:28 silvano added property Dictionary to publish and request API
   Revision 1.55 1998/12/15 09:17:21 tom log_ si public final static now. Jitterbug: 161350
   Revision 1.54 1998/11/19 13:46:57 silvano edited javadoc
   Revision 1.53 1998/11/19 13:17:37 silvano edited javadoc
   Revision 1.52 1998/11/18 09:10:45 tom x comments review and panic calls cleanup.
   Revision 1.51 1998/11/17 13:40:26 vera
   Revision 1.50 1998/11/17 10:08:12 tom
Moved from protocol package up here.
   Revision 1.49 1998/11/16 16:24:59 tom
   Serialization updated.
  Revision 1.48 1998/11/16 15:27:54 tom corrected 'zuero' typo in log msg. Changed log level of that msg to info.
* Revision 1.47 1998/11/16 13:18:36 tom
```

É

```
* Method equals added.
    Revision 1.46 1998/11/09 15:21:21 tom
Issues from Source code review 2./6.11.1998 corrected.
    Revision 1.45 1998/11/06 16:06:12 vera
 * Cleanup.
 * Revision I.44 1998/11/06 07:12:59 tom
* Added newlines (PropertyHelper.LINE_SEPARATOR) to error messages.
    Revision 1.43 1998/11/03 16:05:45 vera
   Revision 1.42 1998/11/03 13:19:13 tom PROPERTY constant must be fowercase.
   Revision 1.41 1998/11/02 16:18:32 vera Documentation has been revised.
   Revision 1.40 1998/10/30 13:31:25 martin Modified Channel.java to always return a non-null value with getChannelURL()
   Revision 1.39 1998/10/30 07:54:24 tom
Serialization implementation; checkpoizbt 1.
   Revision 1.38 1998/10/29 10:07:27 silvano corrected 'zuero' typo in log msg. Changed log level of that msg to info.
  Revision 1.37 1998/10/21 07:36:15 tom Channel has no vetoers no more.
  Revision 1.36 1998/10/19 13:04:27 martin Re-inserted support for "undefined" channel property in Port.java
  Revision 1.35 1998/10/16 09:18:52 tom
Finalization problems localized and quickfixed: panics for producer_counter
  changed to warnings.
  Revision 1.34 1998/10/15 15:19:16 tom
CommunicationRtException support added.
  Revision 1.33 1998/10/15 12:27:22 tor
Changed F* @param tags iDoc compliant.
  Revision 1.32 1998/10/15 12:14:29 tom
Changed F* tags iDoc compliant.
 Revision 1.31 1998/10/15 11:08:46 tom removeXXXListener did not check for nonexistant helper - fixed. GNATS: 109795.
 Revision 1.30 1998/10/14 14:37:43 tom
Javadoc comments reformatted.
 Revision 1.29 1998/10/14 09:04:10 tom dispose() fixed (more to come).
 Revision 1.28 1998/10/14 08:29:01 tom dispose() added. A good Exception need to be defined for this method.
Revision 1.27 1998/10/13 12:41:12 tom UNDEFINED removed (including the initializing method). GNATS: 109791.
 Revision 1.26 1998/10/13 11:53:47 tom
Registration/unregistration algos redone to ensure propper bookkeeping.
Revision 1.25 1998/10/13 08:20:56 silvano added getProtocolStack
Revision 1.24 1998/10/12 07:45:55 tom All finalization issues resolved.
Revision 1.23 1998/10/07 13:50:37 tom More finalizer fixes (and more to come).
Revision 1.22 1998/10/07 09:37:03 tom Channel does not store the URL nomore, but asks ChannelImpl for it.
Revision 1.21 1998/10/07 06:25:29 tom Finalization bugs fixed (more to come).
```

```
Revision 1.20 1998/10/05 15:37:42 tom
Bug in unregister({Subscriber|Replyer}) fixed.
    * Revision 1.19 1998/10/05 06:24:02 martin
* Error in comment field fixed
   * Revision 1.18 1998/10/03 10:19:12 tom
* Add correct handling of pending registrations in setChannelImpl and various
* register / unregister and add / remove methods.
* Revision 1.17 1998/10/03 08:57:18 tom

* ListenerHelper classes renaming done.
   * Revision 1.16 1998/10/03 08:39:36 tom
* Complete ViewChange- and LostMessageEvent support added.
     Revision 1.15 1998/10/02 13:54:14 tom Replaced by ChannelLostMessageEvent and -Listener.
     Revision 1.14 1998/09/30 15:51:04 silvano fixed null pointer access in finalize
     Revision 1.13 1998/09/30 15:26:25 tom Support for real ChannelImpl Singleton (second half).
     Revision 1.12 1998/09/30 15:01:33 tom
Support for real ChannelImpl Singleton.
     Revision 1.11 1998/09/30 14:00:54 tom getChannel() renamed to getChannelURL().
 * Revision 1.10 1998/09/30 13:14:53 tom
* Request/Reply added.
* Minor Bugs fixed.
    Revision 1.9 1998/09/21 14:56:21 silvano implemented checking of ibus property names
    Revision 1.8 1998/09/18 14:41:13 tom Cosmetic changes.
    Revision 1.7 1998/09/15 11:21:35 silvano added a call to normalizeuRL for URL normalization
   Revision 1.6 1998/09/14 13:34:35 silvano
The ChannelurL now is overwritten by the normalized one
   Revision 1.5 1998/09/11 13:27:12 silvano integrated Silvano's 0.5 work
* Revision 1.4 1998/09/09 12:56:46 tom
* Intermediate check in.
* Revision 1.3 1998/08/31 13:30:49 tom
* API and iBus core intergration; Header; Footer
```

[11] ProtocolStackManager.java

```
Revision 1.41, Thu May 6 14:52:11 1999 UTC (4 years, 10 months ago) by silvano
      $Id: ProtocolStackManager.java.v 1.41 1999/05/06 14:52:11 silvano Exp $

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  */
[CODE]
% $Log: ProtocolStackManager.java.v $
    Revision 1.41 1999/05/06 14:52:11 silvano
    Fixed javadoc.
    Revision 1.40 1999/05/06 14:26:53 silvano Fixed javadoc @see tags for javadoc 1.2.
    Revision I.39 1999/04/28 13:30:32 bllklly Cause stacks to be garbage collected after removeProtocolstack - required a call to ProtocolStack.dispose().
    Revision 1.38 1999/04/16 07:23:41 silvano Implemented passing of multiple values to ibus.qos.alias.
    Revision 1.37 1999/04/14 12:48:03 silvano
Bug fix in getExpandedQOS.
    Revision 1.36 1999/04/12 11:51:19 silvano implemented more graceful handling of malformed URLs.
    Revision 1.35 1999/03/30 13:36:32 silvano implemented getStackCache().
   Revision 1.34 1999/03/18 09:27:33 silvano removed expandços because superfluous now.
   Revision 1.33 1999/03/17 16:27:55 silvano expandQOS now only considers aliases but not named stacks.
   Revision 1.32 1999/03/17 15:01:21 silvano implemented expansion of QOS strings.
   Revision 1.31 1999/03/15 11:56:10 silvano implemented Protocolstack.getQOS/setQOS.
   Revision 1.30 1999/03/10 17:36:18 tom
Initial move from PropertyHelper to new Config system.
   Revision 1.29 1999/03/08 16:01:19 silvano implemented -pibus.qos.package property (PR#161386).
  Revision 1.28 1999/01/21 10:30:39 silvano renaming NREACH to REACH
  Revision 1.27 1999/01/07 16:54:32 silvano switched from REACH to NREACH
  Revision 1.26 1998/12/15 09:17:27 tom
log_ si public final static now. Jitterbug: 161350
  Revision 1.25 1998/11/19 13:17:54 silvano edited javadoc
  Revision 1.24 1998/11/17 13:40:40 vera
  Cleanup.
  Revision 1.23 1998/11/16 09:03:38 silvano fixed ALIAS_LOOPBACK setting
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Revision 1.22 1998/11/11 15:30:24 silvano fixed log levels * Revision 1.21 1998/11/11 14:03:43 silvano * converted a panic to a MalformedurLException Revision 1.20 1998/11/06 16:06:29 vera Cleanup. * Revision 1.19 1998/10/27 13:52:30 silvano * defined "loopback" alias Revision 1.18 1998/10/15 11:30:58 tom Javadoc generation without errors. Revision 1.17 1998/10/14 14:37:55 tom Javadoc comments reformatted. Revision 1.16 1998/10/13 15:55:18 silvano added warn message Revision 1.15 1998/10/13 07:33:45 tom Support for correct handling of TOPless aliases added. Revision 1.14 1998/10/05 10:46:12 silvano added log_{-} .junk calls Revision 1.13 1998/10/02 14:29:25 silvano fixed argument parsing bug Revision 1.12 1998/10/02 12:06:04 silvano fixed protocol argument parsing bug Revision 1.11 1998/09/23 08:08:06 silvano fixed javadoc tags Revision 1.10 1998/09/21 14:58:16 silvano Implemented creating, resolving and removing stack aliases and named stacks. Revision 1.9 1998/09/18 15:20:17 silvano implemented stack caching Revision 1.8 1998/09/17 08:34:56 silvano Implemented QOS parsing and protocol stack loading Revision 1.7 1998/09/14 13:37:46 silvano Fixed compile error Revision 1.6 1998/09/14 12:54:28 tom Intermediate checkin. Revision 1.5 1998/09/13 16:05:57 tom Intermediate check in. Revision 1.4 1998/09/11 15:25:46 tom Weekend checkin. Revision 1.3 1998/09/11 13:27:17 silvano integrated Silvano's 0.5 work Revision 1.2 1998/09/09 12:56:51 tom Intermediate check in. Revision 1.1 1998/09/07 08:27:54 tom Incarnation of a new class. Revision 1.1 1998/09/04 07:10:51 tom Initial check in.